CLAIMS

1. An emulsifiable concentrate comprising an active ingredient being a dinitroaniline compound, an emulsifier or an emulsifier mixture, and a solvent, wherein it comprises an amount of a diester co-solvent having the following formula:

R¹00C-(CH₂)_n-COOR²,

wherein:

- R^1 and R^2 , identical or different, are C_1 - C_{10} , preferably C_1 - C_6 , linear or branched, alkyl, aryl, alkaryl or arylalkyl groups, and
- n is an average number of from 2 to 4.
 - 2. An emulsifiable according to claim 1, wherein the active ingredient is selected from the group consisting of pendimethalin, trifluralin and mixtures thereof.
- 15 3: An emulsifiable concentrate according to claim 1 or 2, wherein the diester co-solvent is disobutyl adipate or a mixture of disobutyl adipate, disobutyl glutarate, and disobutyl succinate.
- 4. An emulsifiable concentrate according to claim 3, wherein the diester co-solventcomprises:
 - from 59 to 67 parts by weight of diisobutyl glutarate,
 - from 20 to 28 parts by weight of diisobutyl succinate, and
 - from 9 to 7 parts by weight of diisobutyl adipate.
- 5. An emulsifiable concentrate according to one of the preceding claims, wherein the solvent is an aromatic hydrocarbon.
 - 6. An emulsifiable concentrate according to any of the preceding claims, comprising:
 - at least 330 g/l of the active ingredient, preferably from 400 g/l to 500 g/l,
- 30 from 100 to 130 g/l of the emulsifier or mixture of emulsifiers,
 - from 10 to 30 g/l of the diester co-solvent, and
 - the solvent, to volume.
- 7. An emulsifiable concentrate according to one of the preceding claims, wherein the emulsifier or mixture of emulsifiers is selected from the group consisting of the following compounds:

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- anionic surfactants such as alkylbezenesuflonates such as dodecylbenzenesulfonates, for example calcium dodecylbenzensulfonate, ethoxylated and/or propoxylated di- or tri-styrylphenol phosphates, ethoxylated and/or propoxylated di- or tri-styrylphenol sulfates, phenyl sulfonates, alkynaphtalenesulphonates, ethoxylated and/or propoxylated alcohol phosphate esters, ethoxylated and/or propoxylated alkylaryl phosphate esters, taurates, suphosuccinates, polycarboxylates,
- nonionic surfactants such as ethoxylated and/or propoxylated di- or tri-styrylphenols, ethoxylated and/or propoxylated fatty alcohols, ethoxylated and/or propoxylated fatty amines, ethoxylated and/or propoxylated alkylphenols such as ethoxylated nonylphenols, block copolymers having polypropylene glycol blocks and polyethylene glycol blocks, sorbitan esters, ethoxylated oleic acids, ethoxylates castor oils, and mixtures thereof.
- 8. An emulsifiable concentrate according to one of the preceding claims, wherein the mixture of emulsifiers comprises:
 - at least 50g/l (relative to the emulsifiable concentrate), preferably from 55g/l to 65 g/l, for example 60 g/l, an of an alkaline metal or alkaline metal salts of dodecylbenzene sulfonic acid, such as calcium dodecylbenzene sulfonate, for example a 60% calcium dodecylbenzene sulfonate solution in ethylhexanol or isobutanol, and
- at least 50g/l (relative to the emulsifiable concentrate), preferably from 55g/l to 65g/l, for example 60g/l, of alkylaryl ethylene oxide/propylene oxide block copolymers.
 - 9. An emulsifiable concentrate according to one of claims 1 to 7, wherein the mixture of emulsifiers comprises:
- 25 at least 50 g/l (relative to the emulsifiable concentrate), preferably from 54 g/l to 72 g/l, for example 66 g/l, an of an alkaline metal or alkaline metal salts of dodecylbenzene sulfonic acid, such as calcium dodecylbenzene sulfonate, for example a 60% calcium dodecylbenzene sulfonate solution in ethylhexanol or isobutanol, and
- at least 40 g/l (relative to the emulsifiable concentrate), preferably from 48 g/l to 66 g/l, 30 for example 54 g/l, of ethoxylated and/or propoxylated di- or tri-styrylphenols.
 - 10. An emulsifiable concentrate according to one of the preceding claims, wherein the active ingredient is pendimethalin and it does not crystallize at 0°C, preferably at -5°C.
- 35 11. A method for preparing an emulsion in water of an active ingredient being a dinitroaniline compound, preferably selected from the group consisting of pendimethalin, trifluralin and mixtures thereof, comprising the step of mixing 1 part by volume of an

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emulsifiable concentrate according to one of the preceding claims, with at least 10 parts of water, and up to 500 parts by volume of water.

- 12. An emulsion comprising:
- an active ingredient selected being a dinitroaniline compound,
 - an emulsifier or a mixture of emulsifiers,
 - a solvent,
 - a diester co-solvent having the following formula:

$$R^1OOC-(CH_2)_n-COOR^2$$
,

- 10 wherein:
 - R^1 and R^2 , identical or different, are C_1 - C_{10} , preferably C_1 - C_6 , linear or branched, alkyl, aryl, alkaryl or arylalkyl groups, and
 - n is an average number of from 2 to 4, and
 - water.

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- 13. An emulsion according to one the preceding claim, wherein the active ingredient is selected from the group consisting of pendimethalin, trifluralin and mixtures thereof.
- 14. An emulsion according to claim 11 or 12, wherein:
- 20 the solvent is an aromatic hydrocarbon,
 - the diester co-solvent is diisobutyl adipate or a mixture of diisobutyl adipate, diisobutyl glutarate, and diisobutyl succinate.